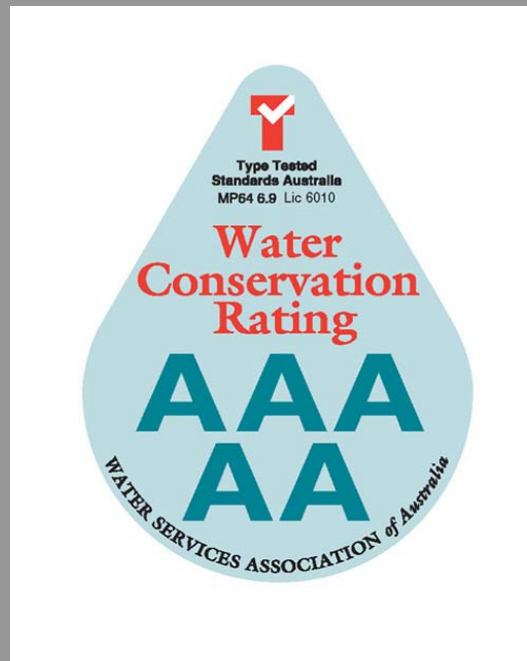


The Australian Water Efficiency Labelling Program



Water Efficient Product Market Enhancement Program Stakeholder Meeting

The Australian Water Efficiency Labelling Program

- **Background**
- **The Program**
- **Future developments with water efficient labelling in Australia**

Background

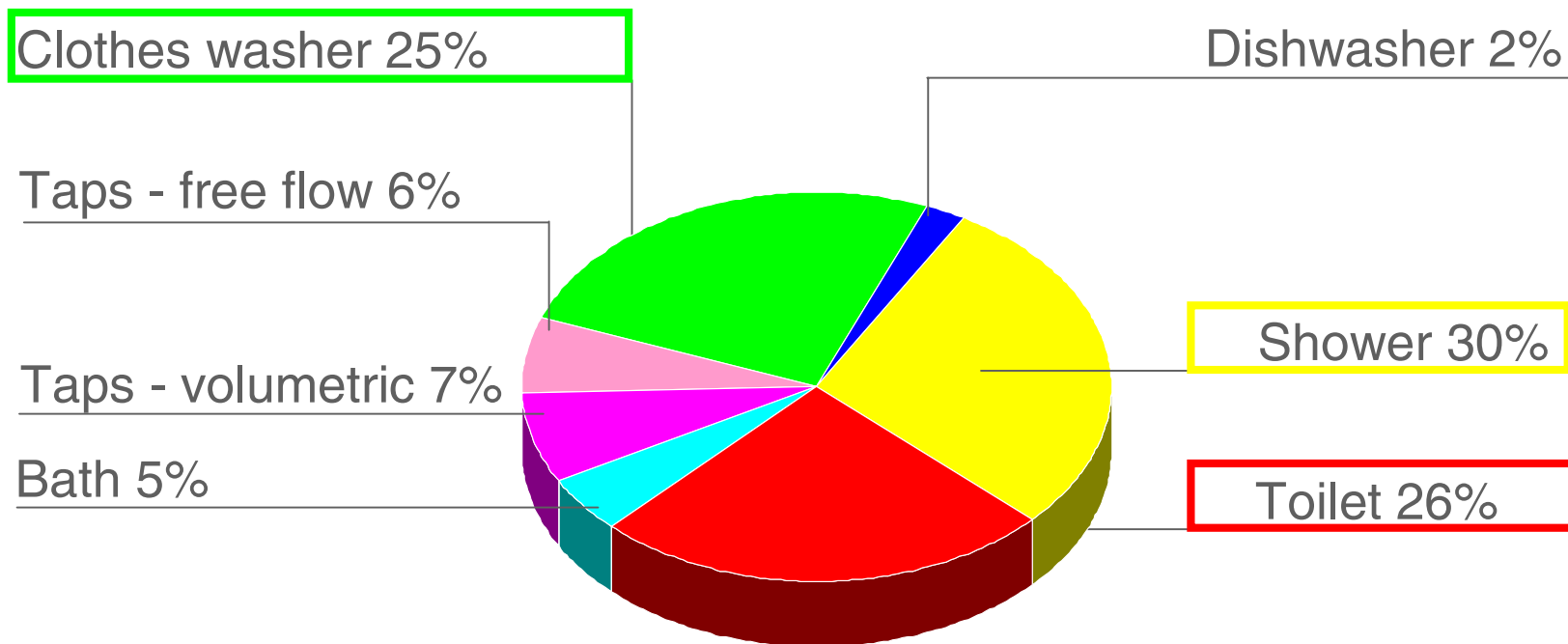
- Population is periodically exposed to prolonged droughts
- Due to current drought conditions in Sydney and Melbourne mandatory water restrictions are in force
- 30% of Australia's population reside in these two cities
- Hence the urgent need for the most efficient plumbing products



Australian in- house water usage

40 gallons per day per person

In- house water usage



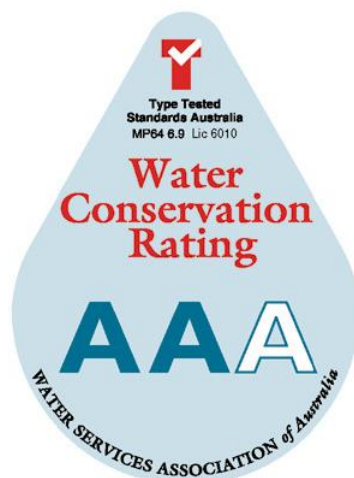
Water efficiency labeling program

Chronology

- Original voluntary program initiated in 1988 by the Melbourne Board of Works for shower heads and dishwashers - A or AA
- Provided consumers with the means to identify the most water efficient products
- 1992 scheme came under the control of Standards Australia
- 1995 AAA rating design was introduced
- 1999 Water Services Australia of Australia (WASA) took over responsibility for the scheme



3A
Excellent
water efficiency



2A
Higher water
efficiency



1A
An acceptable level of
water efficiency

Water efficiency labeling program

The success in Australian with the voluntary water efficient program has been due to the seamless acceptance of the program by consumers, water regulators and industry.

\$100 REBATE

on selected water-efficient **WASHING MACHINES***

For a limited time, Sydney Water is offering customers a \$100 rebate to purchase a 4A- or 5A-rated** water-efficient washing machine.

Washing machines are the third largest consumers of water in your home.

By choosing a water-efficient model, you will help save water, money and protect the environment.

For more information, and an application form, ask in-store or visit Water Conservation & Recycling at www.sydneywater.com.au.

GO SLOW
on the **H₂O**



OUR ENVIRONMENT
it's a living thing

* Terms and conditions apply. For details ask in-store or visit our website at www.sydneywater.com.au. Offer valid from 5 June 2003 to 31 July 2003.

** As rated under the National Water Conservation Labelling and Rating Scheme.

Water Smart Scheme - Victoria

The Scheme offers water saving system rebates for both inside and outside residential applications

•Greywater permanent tank systems _____	\$500
•Rainwater tank _____	\$150
•Rainwater tank to toilet system _____	\$150
•Washing machine _____	\$150
•Dishwasher _____	\$100
•Dual-flush toilet _____	\$50
•High-pressure cleaning device _____	\$30
•Water conservation audit _____	\$30
•A basket of garden products _____	\$30
•Water efficient shower rose _____	\$10

30%



Smart Water Mark

Proposed new voluntary labeling scheme for outdoor water using/saving products, services and organizations.

AS/NZ 6400:2003

Water efficient products-rating and labeling-5A rating

- AS/NZ 6400:2003 standard encourages product development to further reduce in-house water usage



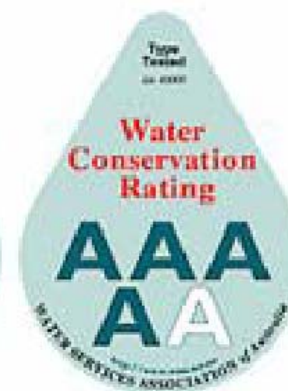
1A
A moderate level of
water efficiency



2A
A good level of
water efficiency



3A
A high level of
water efficiency



4A
A very high level of
water efficiency



5A
An excellent level of
water efficiency

Rating specifications AS/NZS 6400:2003

Spec	Product Type		Rating Unit	Rating				
				1A	2A	3A	4A	5A
1	Shower heads		L/min	more than 12.0 but not more than 15.0	more than 9.0 but not more than 12.0	more than 7.5 but not more than 9.0	[more than 6.0 but not more than 7.5]†	[not more than 6.0]†
2	Dishwashers		L/place setting	more than 2.0 but not more than 2.8	more than 1.5 but not more than 2.0	more than 1.0 but not more than 1.5	more than 0.8 but not more than 1.0	not more than 0.8
3	Clothes washers		L/kg of bone dry load	more than 28.0 but not more than 34.0	more than 22.0 but not more than 28.0	more than 15.0 but not more than 22.0	more than 9.0 but not more than 15.0?	not more than 9.0?
4	Urinal flushing control mechanisms		L/single stall or L/ 600mm width of multiple stall	not more than 2.5 (Conscious operation or Demand driven serving up to 3 individual stalls or equivalent)	not more than 2.0 (Conscious operation or Demand driven serving up to 2 individual stalls or equivalent)	not more than 2.0 (Smart-demand operation serving a single stall)	not more than 2.0 (Smart-demand operation having an adjustable activation device with a sensitivity field of no greater than 300mm from the front of the urinal, serving a single stall)	not more than 1.5 (Smart-demand operation having a programmable time delay to identify a user and an adjustable activation sensitivity field of no greater than 300mm from the front of the urinal serving a single stall)
5	Faucets	Basins, Ablution Troughs	L/min	more than 6.0 but not more than 7.5	more than 4.5 but not more than 6.0	more than 3.0 but not more than 4.5	more than 2.0 but not more than 3.0	Not more than 2.0 with automatic shut-off
		Kitchen Sinks, Laundry Sinks	L/min	more than 12.0 but not more than 15.0	more than 9.0 but not more than 12.0	more than 7.5 but not more than 9.0	more than 6.0 but not more than 7.5	not more than 6.0
6	Toilet suites		L (average flush volume)	more than 5.5 but not more than 6.5	more than 4.0 but not more than 5.5	more than 3.5 but not more than 4.0	more than 2.5 but not more than 3.5	Not more than 2.5
7	Flow regulators	Basins, Ablution Troughs	L/min	more than 6.0 but not more than 7.5	more than 4.5 but not more than 6.0	more than 3.0 but not more than 4.5	more than 2.0 but not more than 3.0	Not more than 2.0
		Kitchen Sinks, Laundry Sinks	L/min	more than 12.0 but not more than 15.0	more than 9.0 but not more than 12.0	more than 7.5 but not more than 9.0	more than 6.0 but not more than 7.5	not more than 6.0

Spec 1: Shower heads

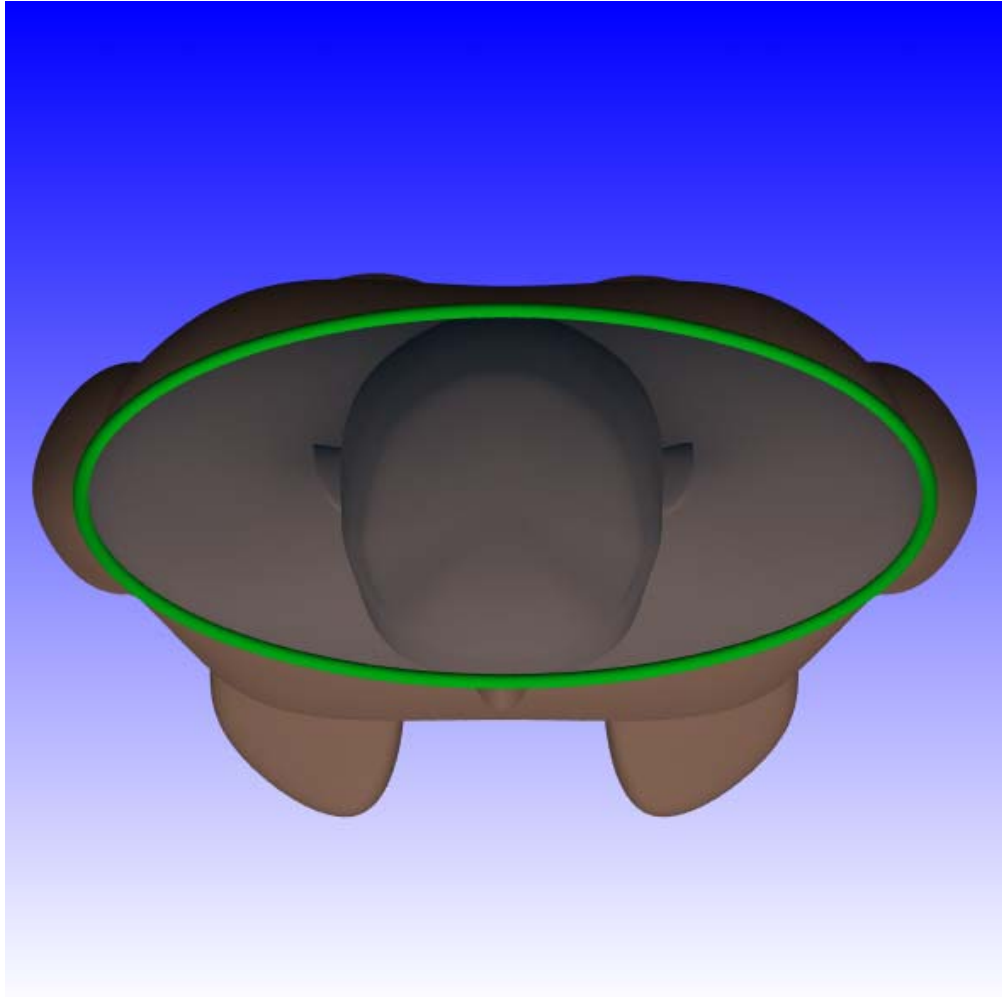
Rating unit: Gallons / min

Rating				
1A	2A	3A	4A	5A
3.2 - 3.96	2.38 - 3.2	1.98 - 2.38	† 1.6 - 1.98	† 1.6 max

† The limits specified in the square brackets are included for information only because the 4A and 5A ratings for some products are currently not available for certification. This is because the performance standards on which the products are assessed need to be reviewed to ensure that these products would perform satisfactorily at the reduced flow rate.

Spec 1: Shower heads

User comfort is a critical consideration



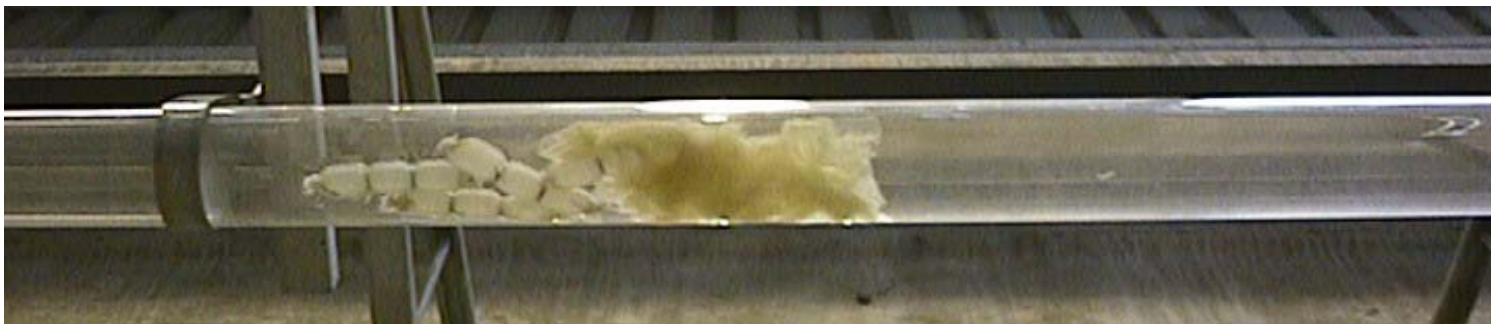
Spec 6: Toilet suites

Rating unit: Gallons (average flush volume)

Rating				
1A	2A	3A	4A	5A
1.45 - 1.7	1.06 - 1.45	0.93 - 1.06	0.66 - 0.93	0.66 max

Spec 6: Toilet suites

Important research to identify the behavior of waste in the drainline following a flush discharge



Future directions

- Water conservation has a high profile and urgency - current to drought conditions
- Study commissioned by the Australian government to examine the impact of introducing a **national mandatory** water efficiency labelling scheme
- Point of sale legislation - regulated and managed by government agencies
- Proposed introduction in 2005
- Universal agreement between interested parties that the Mandatory Labelling of water efficient appliances is in the national interest

Future directions

Report - Table summary of assessments

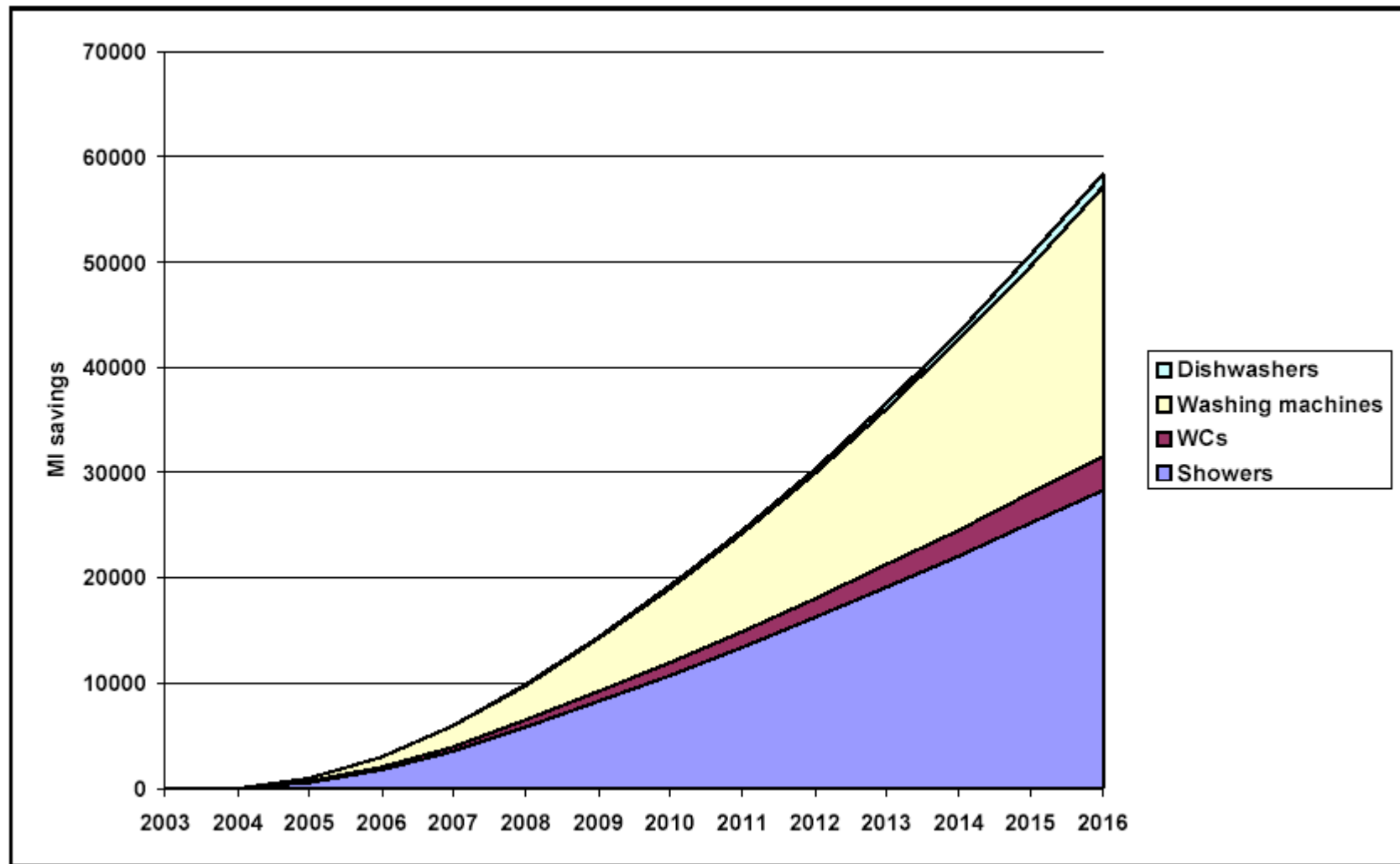
- Study outcome recommended mandatory labelling requirement - shower heads,toilets,clothes washers,dishwashers **80%** in-house usage.

Product	Water use	Labelling recommend- ation	Standards recommend- ation	Projected water savings (ML in 2016)	Projected net benefit: WEL \$M (a)	Benefit/cost ratio: WEL \$M (a)
Shower heads	High	Mandatory	Possible	28,320	\$M 246	26
Toilets	High	Mandatory	Possible	3,190	\$M 11	2.2
Clothes washers	High	Mandatory	Possible	25,600	\$M 53	1.4
Dishwashers	Low, rising	Mandatory	No	1,190	(\$M -3)	0.8
Taps	Medium	Voluntary	No	NA	NA	NA
Urinal flush	High?	Voluntary	Possible	NA	NA	NA
Flow regulators	NA	Voluntary	No	NA	NA	NA
Outdoor products	High	Voluntary (endorsement)	No	NA	NA	NA
Totals				58,300	\$M 297	2.7

(a) Net Present Value at mid-2003, at 10% discount rate, whole of Australia, if mandatory WEL takes effect at the beginning of 2005. No impacts, cost or benefits have been calculated for mandatory WES.

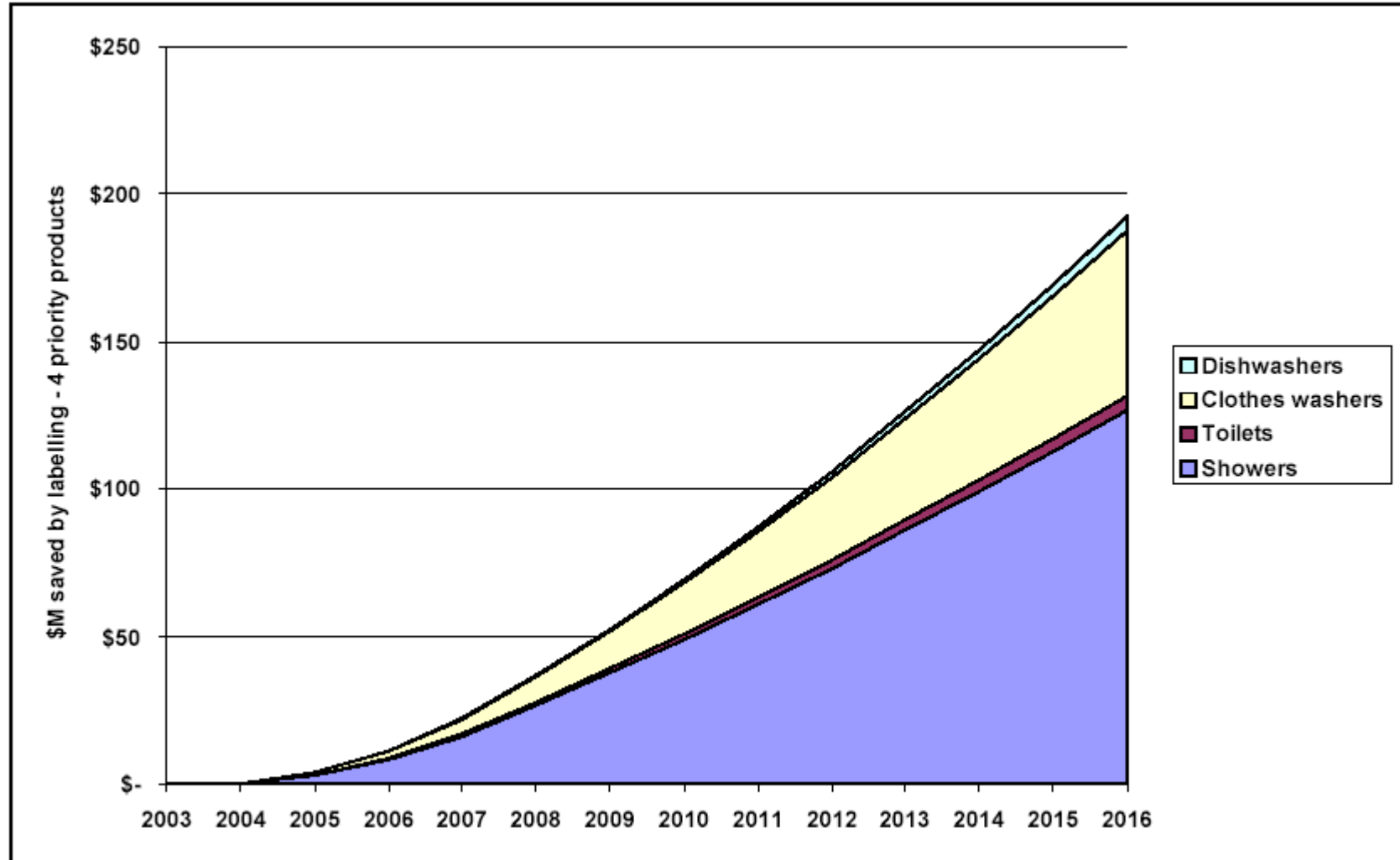
Future directions

- Projected savings of **4.7%** of total in-house water usage by 2016.



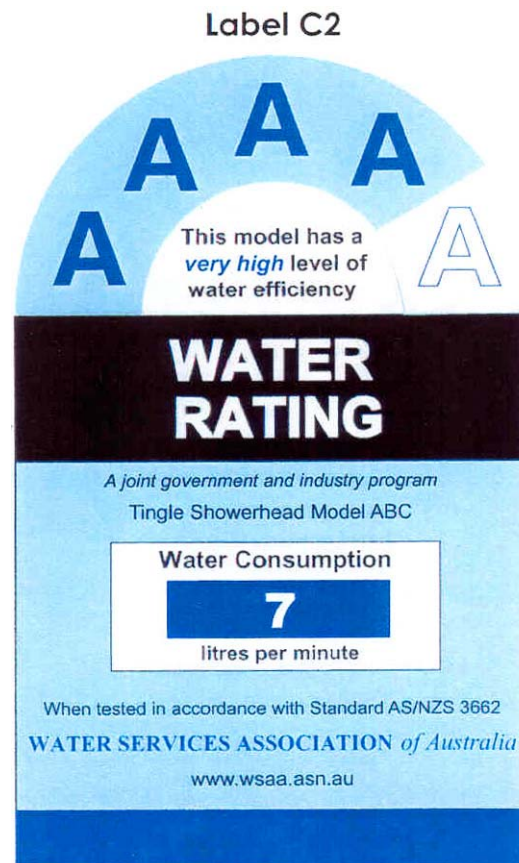
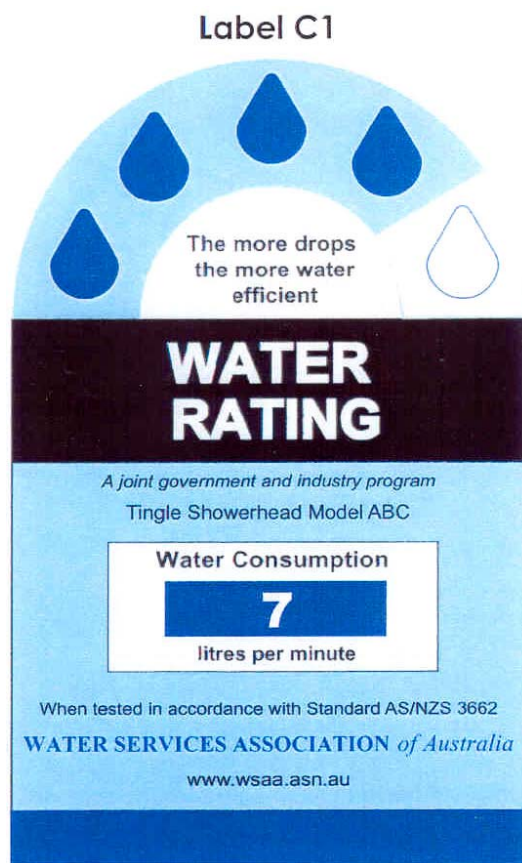
Future directions

- **\$300M** - projected overall net benefit in energy and water savings.



Future directions

Proposed logo concept options



Directions

- As we move towards sustainable developments - consumer identification of the most efficient plumbing products will be vital to minimise water and waste water



Couren Cove - ecotourism resort sustainable development Stradbroke Island Queensland Australia

Thank you